

ABSTRACT OF THE DISCLOSURE

An optical engine which projects an image onto a screen has a housing, and in the housing, there are provided many optical elements such as a cross dichroic mirror, a plurality of reflection polarizing plates, a polarizing plate, a plurality of reflection type liquid crystal elements, a combining prism and others. Most of these optical elements provided in the housing are formed of inorganic materials. Since only the reflection type liquid crystal elements are formed of organic materials and hence require cooling, radiators are respectively provided to the reflection type liquid crystal elements, and these radiators are arranged integrally with the housing.